

WHAT IS CLAIMED IS:

- 5 *Sub A* 10
1. A method for converting a public switched telephone network call to a data network call, the method comprising:
- receiving the public switched telephone network call from an origination phone at a destination phone;
 - identifying a caller identifier for the public switched telephone network call;
 - rejecting the public switched transmission call;
 - placing a call to a network service provider;
 - determining a network address for the origination phone; and
 - completing a network call with the origination phone.
- 15 2. The method of claim 1 wherein the destination phone is a personalized computer.
3. The method of claim 1 wherein the destination phone is a customized telephone.
4. The method of claim 1 wherein the call to the network service provider is made via PSTN.
- 15 5. The method of claim 1 wherein the call to the network service provider is made via a local area network.
6. A method for converting a public switched telephone network call to a data network call, the method comprising:
- placing a public switched telephone network call from an origination phone to a destination phone;
 - detecting a rejected call from the destination phone;
 - placing a call to a network service provider;
 - determining a network address for the destination phone; and
 - completing a network call with the destination phone.
- 25 7. The method of claim 6 wherein the origination phone is a personal computer.
8. The method of claim 6 wherein the origination phone is a customized telephone.
9. The method of claim 6 wherein the call to the network service provider is made via PSTN.
- 30 10. The method of claim 6 wherein the call to the network service provider is made via a local area network.
11. A network phone, comprising:
- a phone connector operable to connect to a public switched telephone network;

- b) a transmitter operable to transmit signals corresponding to a phone number for a call destination and a call identifier;
- c) a detector operable to receive an incoming call from another station and detect supplementary signals associated with that call;
- 5 d) a processor operable to
- i) place a public switched telephone network call to a service provider in response to the supplementary signals;
 - ii) detect a network address for the other station; and
 - iii) complete a network call between the network phone and the other station.
- 10 12. The network phone of claim 11, wherein the network phone is a personal computer.
13. The network phone of claim 11, wherein the network phone is a customized telephone.
14. A computer-readable medium containing software code that, when executed, results in:
- a) receiving a public switched telephone network call from an origination phone at a destination phone;
 - b) identifying a caller identifier for the public switched telephone network call;
 - c) rejecting the public switched transmission call;
 - d) placing a call to a network service provider;
 - e) determining a network address for the origination phone; and
 - f) completing a network call with the origination phone.
- 15 20. 15. The computer-readable medium of claim 14 wherein the software code is executed by a personal compute equipped to place public switched telephone network calls.
16. The computer-readable medium of claim 14 wherein the software code is executed by a customized telephone.
- 25 17. A computer-readable medium containing software code that, when executed, results in:
- a) placing a public switched telephone network call from an origination phone to a destination phone;
 - b) detecting a rejected call from the destination phone;
 - c) placing a call to a network service provider;
 - d) determining a network address for the destination phone; and
 - e) completing a network call with the destination phone.
- 30 18. The computer-readable medium of claim 17 wherein the software code is executed by a personal compute equipped to place public switched telephone network calls.

19. The computer-readable medium of claim 17 wherein the software code is executed by a customized telephone.
20. A network phone, comprising:
- a) a means for connecting to a public switched telephone network;
 - b) a means for transmitting signals corresponding to a phone number for a call destination and a call identifier;
 - c) a means for receiving an incoming call from another station and detect supplementary signals associated with that call;
 - d) a means for placing a public switched telephone network call to a service provider in response to the supplementary signals;
 - e) a means for detecting a network address for the other station; and
 - f) a means for completing a network call between the network phone and the other station.

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